

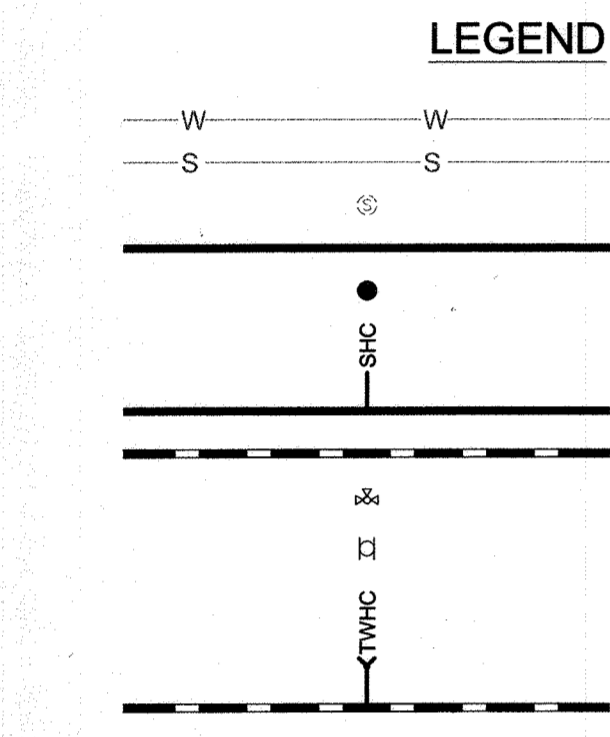
QUANTITIES				
ITEMS	QUANTITIES		AS-BUILT	
	ESTIMATED	QUANTITIES	TYPE	MANUF./SUPPLIER
8" PVC C-900 DR-18 WATER	594 LF	592	8" C-900 DR18	JM EAGLE
6" FIRE HYDRANT	2 EA	2	CENTURION 250	MUELLER
1.5" WHC	343 LF	195	1 1/2" COPPER	CAMBRIDGE LEE
1" TWIN WATER METER VAULT	6	6	30"x30"	HORNE CONCRETE
8" PVC SDR-35 SEWER	429 LF	426	SDR 35 8"x14	JM EAGLE
MANHOLES	4 EA	4	PRECAST CONC.	CP
4" SHC	345 LF	342	SDR 35 PVC	NATIONAL
4" SHC CLEANOUTS	12 EA	12	CONCRETE	HORNE

NAME OF UTILITY CONTRACTOR: RAPP CONTRACTING 11610 EAST MAPLE AVE BELTSVILLE MD 20705
SURVEY & DRAFTING DIVISION AS-BUILT DATE:

LOT FRONTAGE CHART	
LOT	DISTANCE (ft)
1	33.08
2	20.86
3	20.04
4	20.00
5	27.98
6	27.98
7	20.00
8	20.00
9	20.00
10	20.00
11	20.00
12	20.00

SHC CHART				
Lot Number	Invert @ Main	Invert @ R/W or esmt line	Minimum Cellar Elevation	Cellar Elevation*
1	378.77	379.51	382.10	387.20
2	378.50	379.01	383.36	387.66
3	378.30	378.86	383.91	388.19
4	377.79	378.36	384.47	388.79
5	377.60	378.16	384.86	389.14
6	376.86	377.43	384.26	388.63
7	376.63	377.19	383.25	387.62
8	375.90	376.46	382.04	386.32
9	375.70	376.26	381.46	385.78
10	375.05	375.62	381.12	385.45
11	374.86	375.42	379.58	383.88
12	374.30	374.87	378.22	382.57

*All units are slab on grade



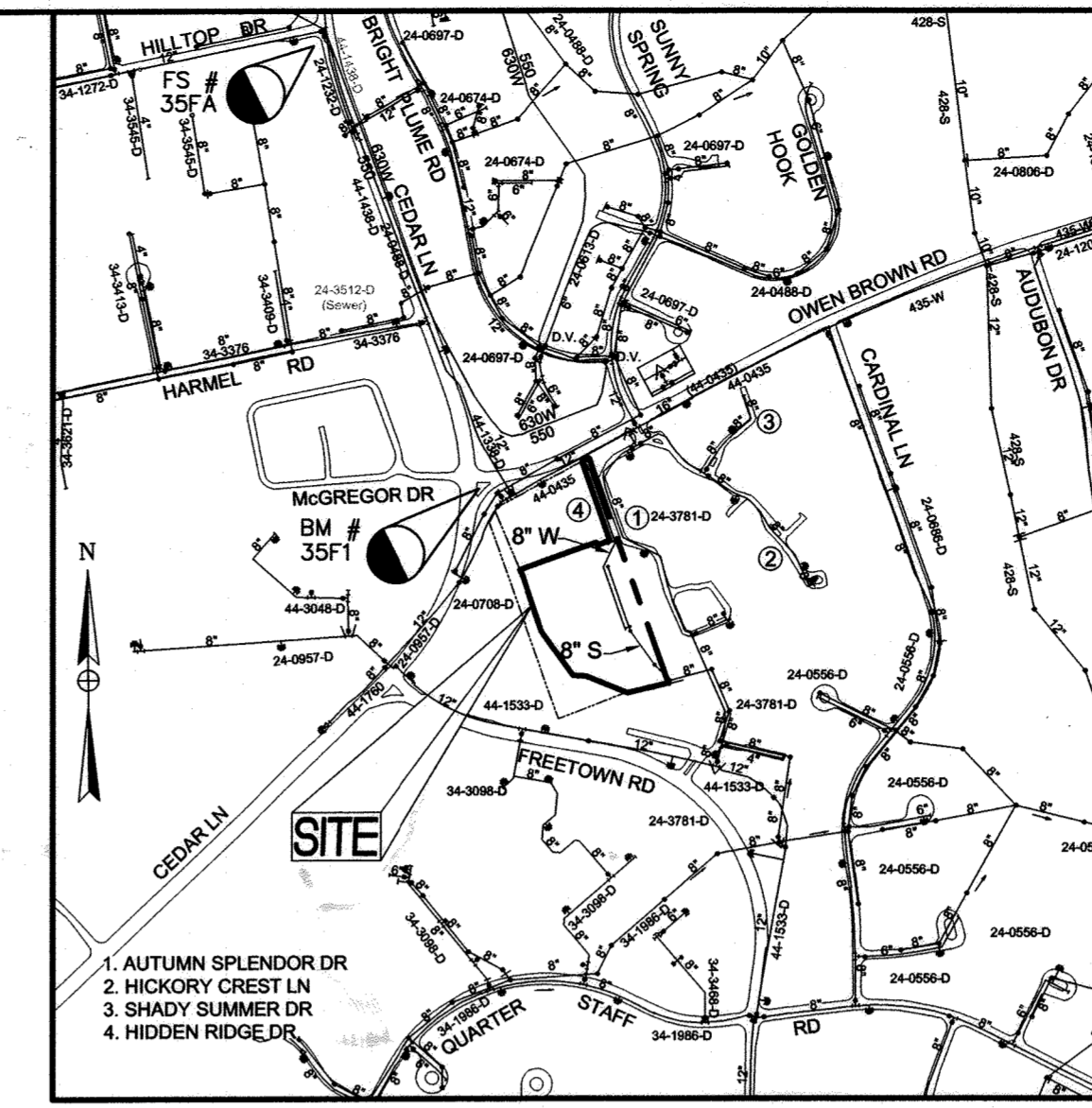
HIDDEN RIDGE

LOTS 1 thru 12 & OPEN SPACE LOT 13

5th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

CONTRACT No. 24-5007-D



GENERAL NOTES:

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON DECEMBER, 2015 BY MID-ATLANTIC PROFESSIONAL SURVEYS (MAPS).
- HORIZONTAL AND VERTICAL CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. BM 35FA AND NO. BM 35F1. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12-INCHES. CLEAR ALL POLES BY 6'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED TO THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL VOLUME II, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	800-252-1133
BGE (CONTRACTOR SERVICES)	410-637-8713
BGE (EMERGENCY)	410-685-0123
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-795-1390
MISS UTILITY	800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	800-743-0033
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY AT (410) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR FOR USE OF CONDUITS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
- WAIVER DMV-219-006: REQUESTED AN APPROVAL FOR AN 8" PUBLIC SEWER MAIN IN THIS DEVELOPMENT TO BE PARTIALLY CONSTRUCTED WITHIN A PUBLIC SEWER EASEMENT LESS THAN 20 FEET WIDE, THEREBY WAIVING HOWARD COUNTY DESIGN MANUAL VOLUME II - WATER AND SEWER, SECTION 5.3.8.1. THE WAIVER REQUEST WAS DENIED, SINCE THE PROPOSED EASEMENT WILL RESTRICT ACCESS TO THE PROPOSED SEWER, AND CONSIDERING A Viable PATH EXISTS TOWARDS PROVIDING A STANDARD WIDTH EASEMENT PRIOR TO THE SUBDIVISION PROCESS BEING COMPLETED.
- AS OF JUNE 6, 2019, THE DEPARTMENT OF PLANNING AND ZONING APPROVES THE REQUEST FOR THE 100-YEAR FLOODPLAIN DISTURBANCE AS ESSENTIAL OR NECESSARY DISTURBANCE, IN ACCORDANCE WITH SECTION 16.11(C) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE NECESSARY ENVIRONMENTAL DISTURBANCE IS SUBJECT TO THE FOLLOWING MITIGATION METHODS:
 - THE APPLICANT OBTAIN ANY REQUIRED PERMITS FOR THE PUBLIC SEWER LINE CONNECTION.
 - DURING CONSTRUCTION, THE PROPOSED WORK AREA WITHIN THE FLOODPLAIN SHALL BE ADEQUATELY PROTECTED BY A DOUBLE SILT FENCE TO CONTROL STORMWATER RUNOFF.
 - THE 100-YEAR FLOODPLAIN AREA DISTURBED SHALL BE STABILIZED AND RE-VEGETATED UPON COMPLETION OF THE SEWER LINE INSTALLATION BACK TO ITS ORIGINAL PRE-CONSTRUCTION CONDITION.

WATER NOTES:

- ALL WATER MAINS SHALL BE PVC C-900 DR-18 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- TRACER WIRES AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
- FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATION OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.
- UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. SEVENTEEN (17) POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. TWELVE (12) POUND ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON PIPE.
- PROPER ASSEMBLY OF GASKETED PVC PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF PVC PIPE.
- ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED, WHERE HIGH DEFLECTION COUPLINGS OR 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ONE FULL PIPE LENGTH (20 FOOT LONG) ON EITHER SIDE OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP. THE CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR OR OTHER APPROVED MEANS TO THOROUGHLY COMPACT THE 87 TON STONE ON BOTH SIDES OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP, TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING.

PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (11 - 2 DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C900, SHALL HAVE A MINIMUM LAY LENGTH OF 8-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTEED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL.

FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR 18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (PEX) BLUE BRUTE DR18 OR EQUAL.

WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION COUPLINGS AND 5-DEGREE SWEEPS. BELLS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE MANUFACTURED OF DUCTILE IRON AND INCORPORATE AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 3000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.

SEWER NOTES:

- ALL SEWER MAINS SHALL BE PVC SDR-35 UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL HAVE 18" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAIN SHALL BE DIP ONLY.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER. STANDARD DETAIL 05-02 WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.

NOTE:

ALL WATER HOUSE CONNECTIONS ARE TO BE 1.5" WITH A 1" METER (OUTSIDE SETTING).
ALL SEWER HOUSE CONNECTIONS SHALL BE 4" PVC.

TYPE OF BUILDING:	ATTACHED SFD
NUMBER OF SHCS:	12
NUMBER OF TWIN WHCS:	6
SEWERED:	LOWER PATUKENT
TREATMENT PLANT:	LPWRP
WATER ZONE:	550
TEST GRADIENT:	827

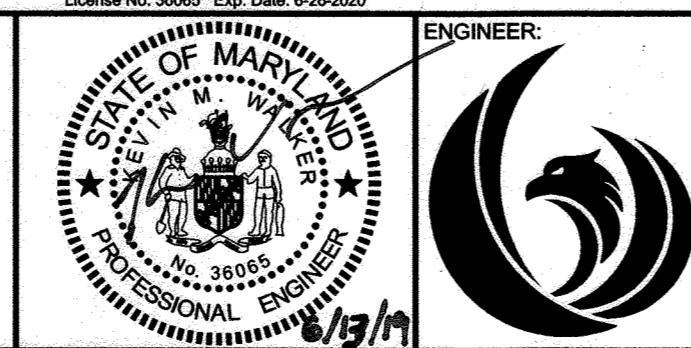
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 206 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER SITE DEVELOPMENT PLAN **2017-F-18-087**

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOUL CONSERVATION DISTRICT

John R. Roberts 7/10/19
HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Chris Slay 7-1-19
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Michael M. M. 7-2-19
CHIEF, BUREAU OF UTILITIES DATE



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21132 Old York Road
Parkton, MD 21120
410.329.1150
www.phoenix-eng.com

DES. NAF	DRN. NAF	CHK. K.M.W.	WRA	BY	NO.	AS-BUILT QUANTITIES	DESCRIPTION	DATE

SANITARY SEWER MANHOLE SCHEDULE								
NUMBER	NORTHING	EASTING	INVERT IN	INVERT OUT	TOP ELEV.	STD. DETAIL	OWNER	REMARKS
1007	557,160.7662	1,345,632.7338	366.87 (6")	363.20 (EX)	373.57	Ho.Co STD. S-132	PUBLIC	
1008	557,194.1610	1,345,802.8442	367.94 (6")	367.84	373.95	Ho.Co STD. G-6.11	PUBLIC	
1009	557,324.7760	1,345,709.4502	373.91 (6")	373.81	380.49	Ho.Co STD. G-5.11	PUBLIC	
1010	557,535.1860	1,345,635.6028	379.46 (4")	378.33	388.27	Ho.Co STD. G-5.11	PUBLIC	

FINAL PUBLIC WATER & SEWER TITLE SHEET

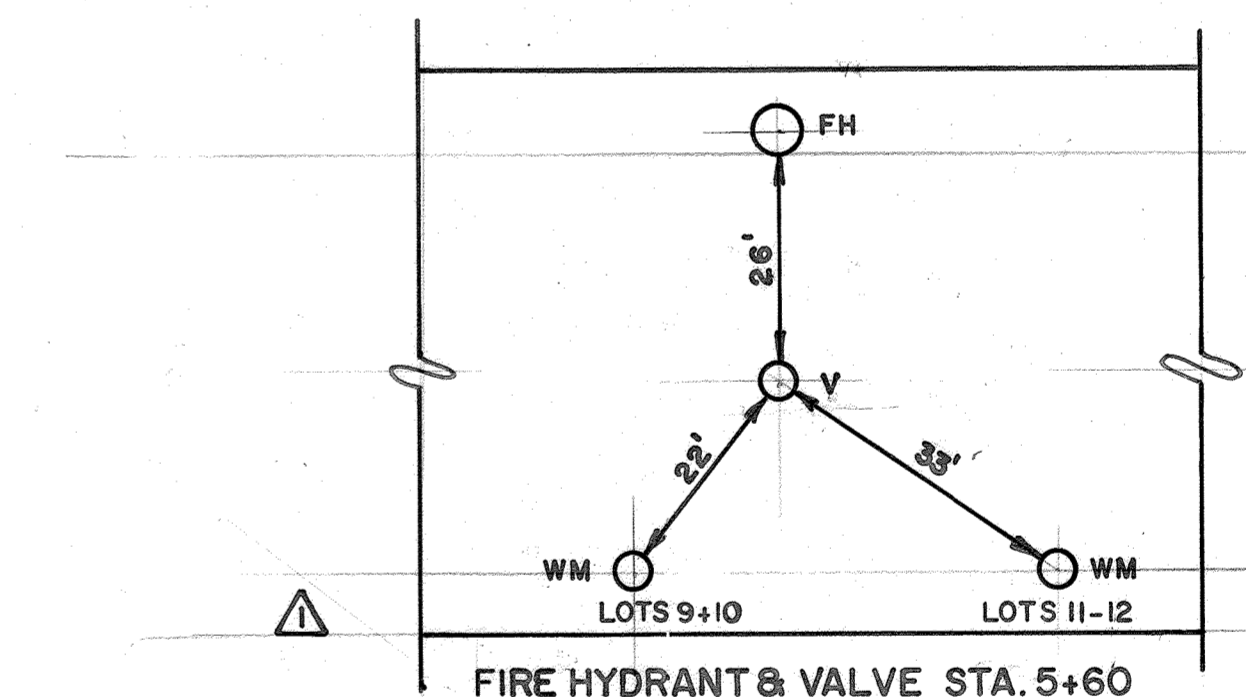
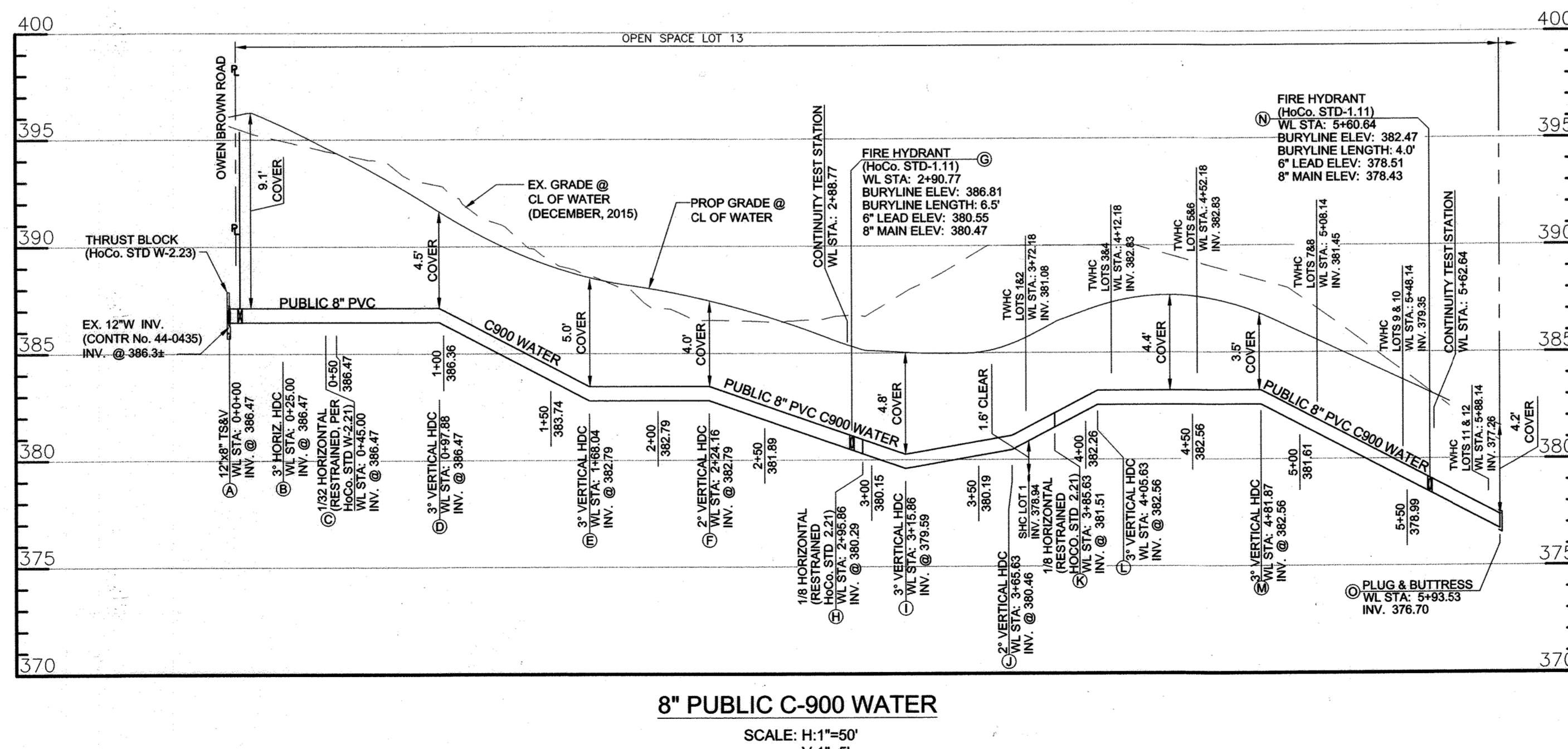
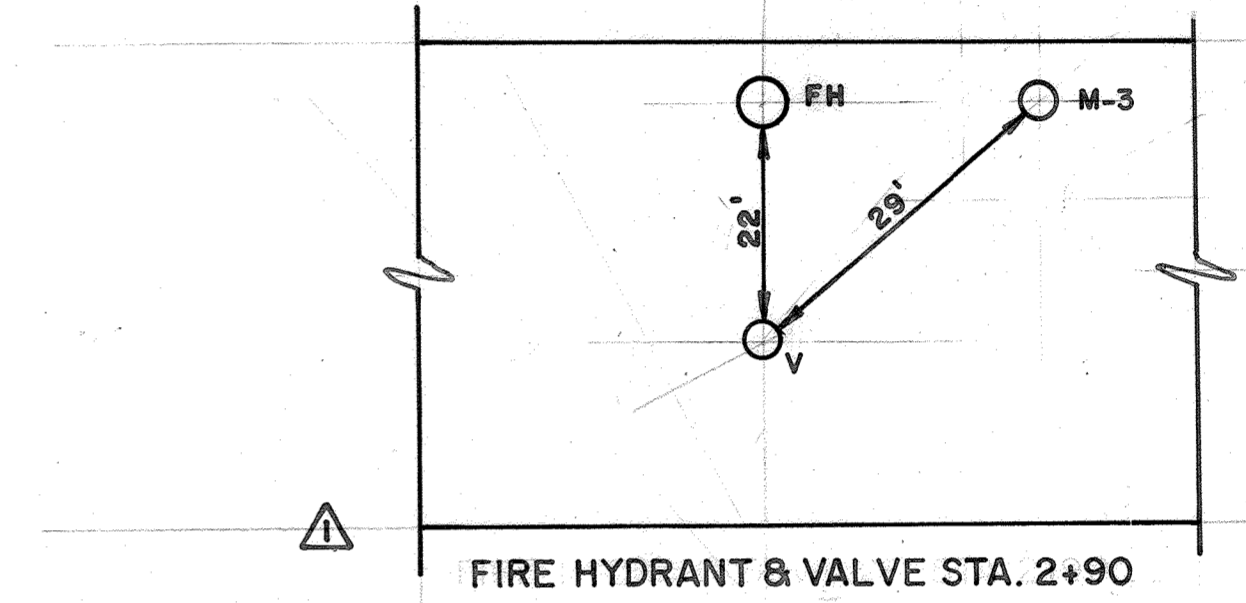
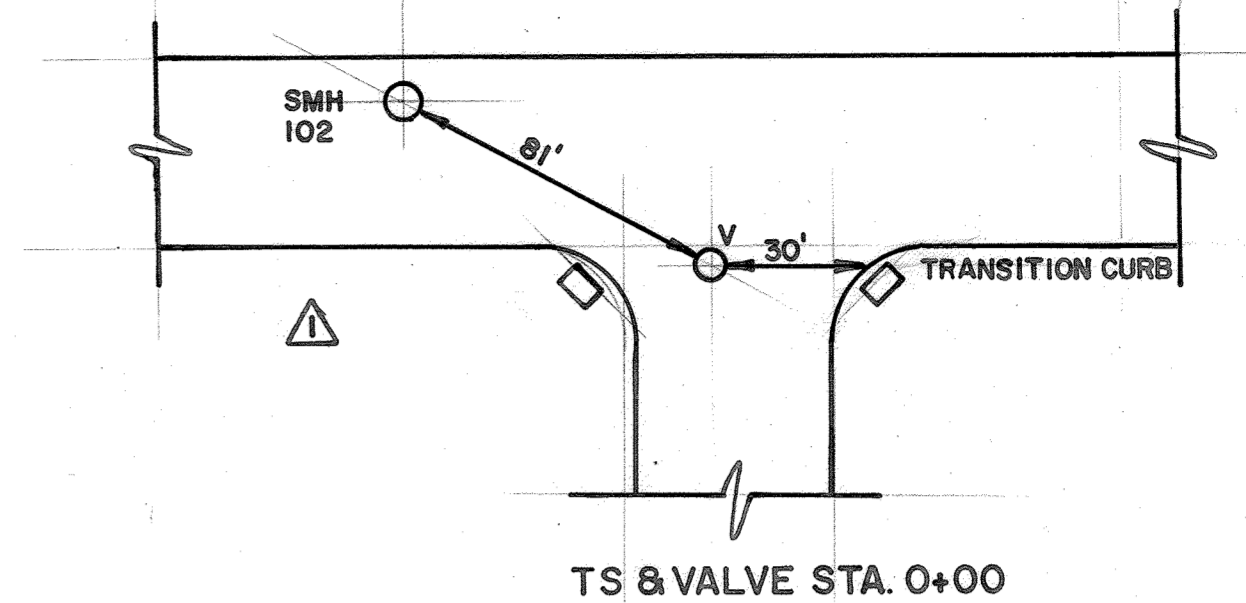
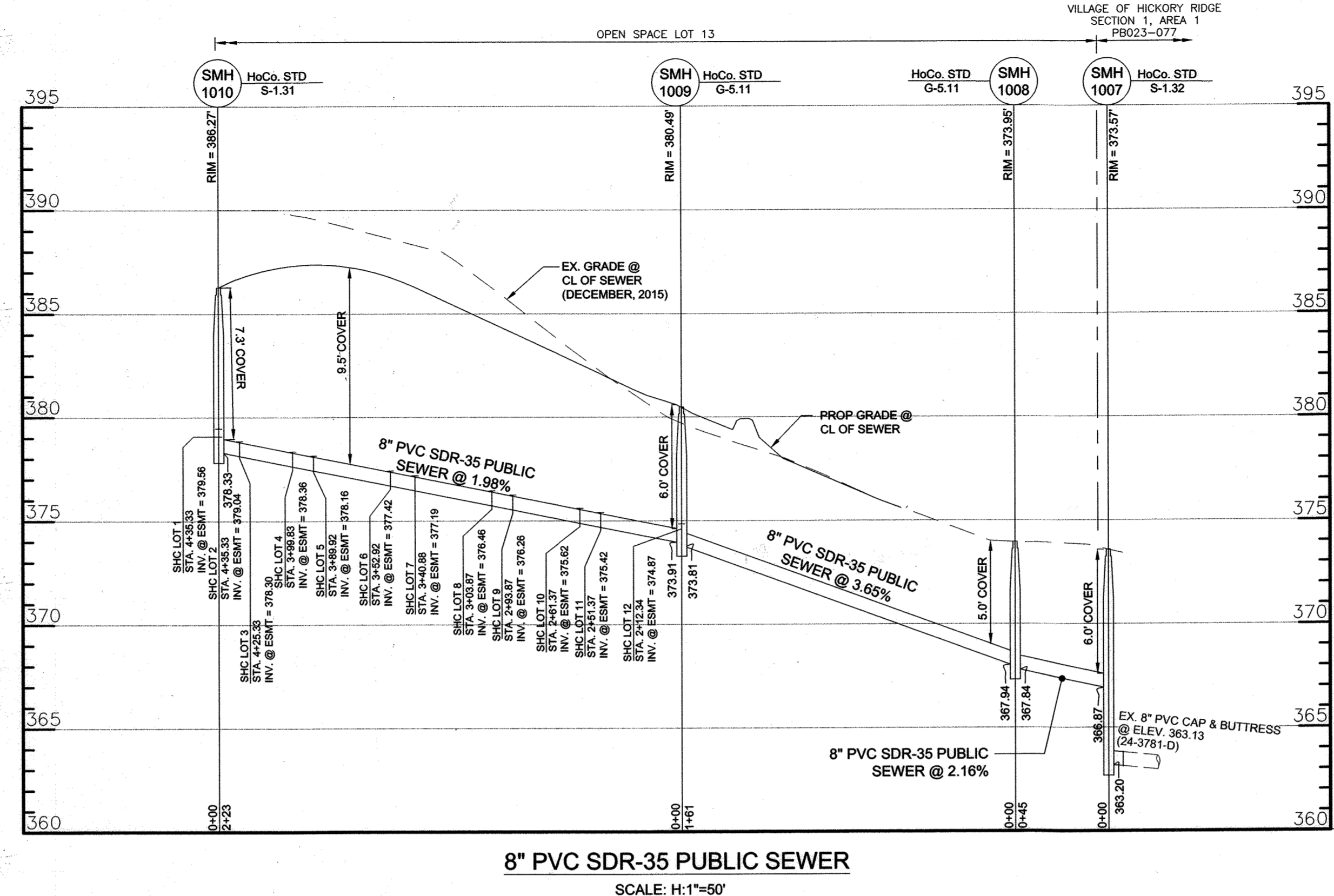
600' SCALE MAP: # 35
BLOCK: 18

HIDDEN RIDGE
LOTS 1 thru 12 & OPEN SPACE LOT 13
ZONING: R-SC - TAX MAP: 35 - GRID: 18 - PARCEL: 238 - ELECTION DISTRICT: 05
DRAWING NO. 1 OF 2
SCALE: H: 1" = 50'
DATE: 6/13/2019

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	10700 HIDDEN RIDGE DRIVE	WHC - 1 TO SMH - 3 - 35'	WHC - 1 TO SHC - 1 - 23'
2	10702 HIDDEN RIDGE DRIVE	WHC - 2 TO SMH - 3 - 32'	WHC - 2 TO SHC - 1 - 24'
3	10704 HIDDEN RIDGE DRIVE	WHC - 3 TO SMH - 3 - 33'	WHC - 3 TO SHC - 3 - 12'
4	10706 HIDDEN RIDGE DRIVE	WHC - 4 TO SMH - 3 - 38'	WHC - 4 TO SHC - 4 - 17'
5	10708 HIDDEN RIDGE DRIVE	WHC - 5 TO SHC - 5 - 14'	WHC - 5 TO SHC - 6 - 25'
6	10710 HIDDEN RIDGE DRIVE	WHC - 6 TO SHC - 6 - 22'	WHC - 6 TO SHC - 5 - 16'
7	10712 HIDDEN RIDGE DRIVE	WHC - 7 TO SHC - 7 - 22'	WHC - 7 TO SHC - 8 - 16'
8	10714 HIDDEN RIDGE DRIVE	WHC - 8 TO SHC - 8 - 15'	WHC - 8 TO SHC - 7 - 23'
9	10716 HIDDEN RIDGE DRIVE	WHC - 9 TO SHC - 9 - 16'	WHC - 9 TO SHC - 10 - 18'
10	10718 HIDDEN RIDGE DRIVE	WHC - 10 TO SHC - 10 - 16'	WHC - 10 TO SHC - 9 - 18'
11	10720 HIDDEN RIDGE DRIVE	WHC - 11 TO SHC - 11 - 13'	WHC - 11 TO SHC - 12 - 29'
12	10722 HIDDEN RIDGE DRIVE	WHC - 12 TO SHC - 12 - 26'	WHC - 12 TO SHC - 11 - 16'

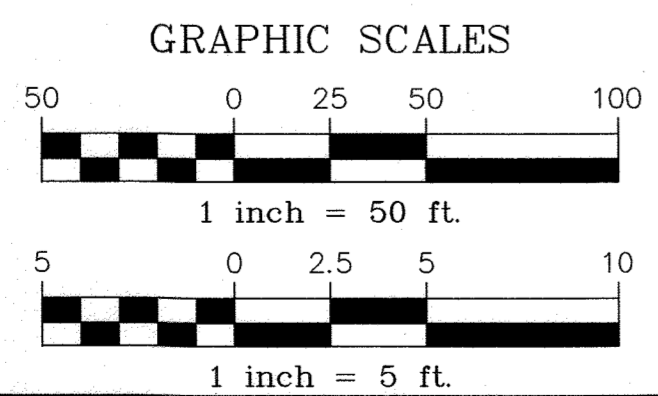
SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	10700 HIDDEN RIDGE DRIVE	SHC - 1 TO SMH - 3 - 35'	SHC - 1 TO WM 1+2 - 23'
2	10702 HIDDEN RIDGE DRIVE	SHC - 2 TO SMH - 3 - 32'	SHC - 2 TO WM 3+4 - 21'
3	10704 HIDDEN RIDGE DRIVE	SHC - 3 TO SMH - 3 - 33'	SHC - 3 TO WM 3+4 - 12'
4	10706 HIDDEN RIDGE DRIVE	SHC - 4 TO SMH - 3 - 48'	SHC - 4 TO WM 3+4 - 17'
5	10708 HIDDEN RIDGE DRIVE	SHC - 5 TO WHC - 5 - 14'	SHC - 5 TO WM 5+6 - 15'
6	10710 HIDDEN RIDGE DRIVE	SHC - 6 TO WHC - 6 - 22'	SHC - 6 TO WM 5+6 - 23'
7	10712 HIDDEN RIDGE DRIVE	SHC - 7 TO WHC - 7 - 22'	SHC - 7 TO WM 7+8 - 23'
8	10714 HIDDEN RIDGE DRIVE	SHC - 8 TO WHC - 8 - 15'	SHC - 8 TO WM 7+8 - 15'
9	10716 HIDDEN RIDGE DRIVE	SHC - 9 TO WHC - 9 - 16'	SHC - 9 TO WM 9+10 - 17'
10	10718 HIDDEN RIDGE DRIVE	SHC - 10 TO WHC - 10 - 16'	SHC - 10 TO WM 9+10 - 17'
11	10720 HIDDEN RIDGE DRIVE	SHC - 11 TO WHC - 11 - 13'	SHC - 11 TO WM 11+12 - 13'
12	10722 HIDDEN RIDGE DRIVE	SHC - 12 TO WHC - 12 - 26'	SHC - 12 TO WM 11+12 - 20'

WATER APPURTANENCE SCHEDULE				
POINT NUMBER	APPURTANENCE	WATER LINE STATION	NORTHING	EASTING
A	12" x 8" TS&V	WL STA: 0+00.00	557894.7376	1345558.2837
B	3" HORIZ HDC	WL STA: 0+25.00	557872.3776	1345569.4652
C	1/32 HORIZ BEND	WL STA: 0+45.00	557854.9822	1345579.3345
D	3" VERTICAL HDC	WL STA: 0+97.88	557805.0398	1345596.8934
E	3" VERTICAL HDC	WL STA: 1+68.04	557737.7931	1345620.4645
F	2" VERTICAL HDC	WL STA: 2+24.16	557684.8399	1345639.0498
G	8" x 6" FH TEE	WL STA: 2+90.77	557621.9879	1345661.1089
H	1/8 HORIZ BEND	WL STA: 2+95.86	557617.1899	1345662.7928
I	3" VERTICAL BEND	WL STA: 3+15.86	557599.1584	1345654.1302
J	2" VERTICAL HDC	WL STA: 3+65.63	557554.2969	1345632.5780
K	1/8 HORIZ BEND	WL STA: 3+85.63	557536.2702	1345623.9177
L	3" VERTICAL HDC	WL STA: 4+05.63	557517.3978	1345630.5414
M	3" VERTICAL HDC	WL STA: 4+81.87	557445.4599	1345655.7898
N	8" x 6" FH TEE	WL STA: 5+60.64	557372.2292	1345681.4915
O	8" PLUG & BUTTRESS	WL STA: 5+93.53	557341.1855	1345692.3869



SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 9 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER SITE DEVELOPMENT PLAN SDP

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOUL CONSERVATION DISTRICT



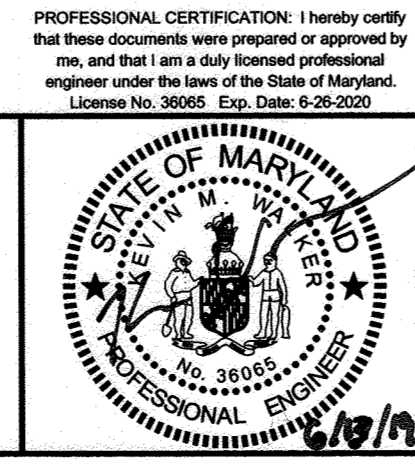
John K. Robertson 7/10/19
 HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signature] 7-1-19
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

[Signature] 7-23-19
 CHIEF, BUREAU OF UTILITIES DATE



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 410.329.1150
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DES:	WRA	ADD HYDRANT AND VALVE DIAGRAMS, HOUSE CONN, LOCATION TABLES	8-31-20
DRN:	NAF		
CHK:	K.M.W.		
BY:	NO.	DESCRIPTION	DATE

FINAL WATER & SEWER PROFILES

600' SCALE MAP: # 35 BLOCK: 18

HIDDEN RIDGE
 LOTS 1 thru 12 & OPEN SPACE LOT 13

CONTRACT NO. 24-5007-D

SCALE: H:1" = 50'
 V:1" = 5'

DRAWING NO. 2 OF 2
 DATE: 6/13/2019